

The GMOs regulatory framework to be enforced in the EU

Ilaria Ciabatti
European Commission
Health and Food Safety Directorate-General
Safety of the Food Chain Directorate
Biotechnology Unit

ilaria.ciabatti@ec.europa.eu

2nd International Workshop of GMO-analysis Network JRC, Ispra 21-23 July 2015



Main objective of EU legislation on GMOs

Protection of human life and health, animal health and welfare, environment

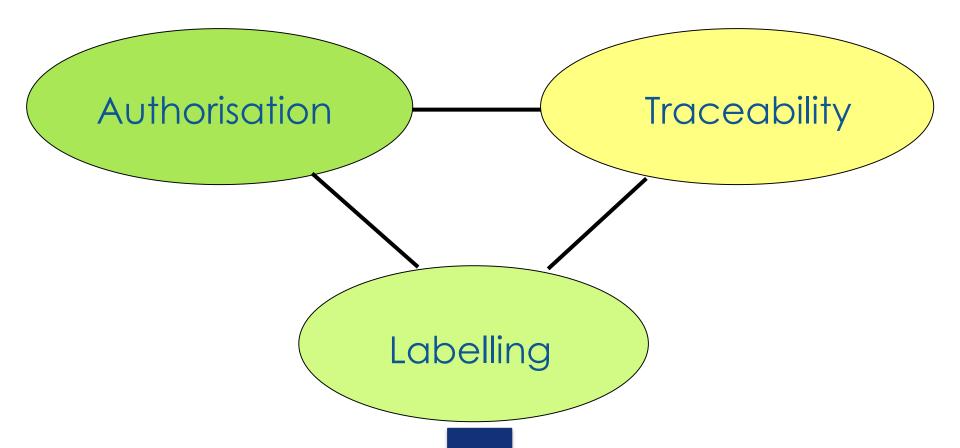


Protection of consumer interests in relation to GMOs

Ensuring the effective functioning of the internal market









Directive 2001/18/EC on the deliberate release of GMOs into the environment



- Experimental release of GMOs into the environment (part B)
- Placing on the market of GMOs: e.g. cultivation, import, transformation (part C)



Regulation (EC) No 1829/2003

On genetically modified food and feed

Authorisation

Labelling



Regulation (EC) No 1830/2003

on the traceability and labelling of GMOs and the traceability of GM food and feed

Traceability

Labelling

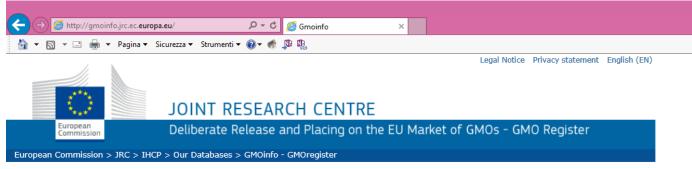
EU legislation on the placing on the market of GMOs

Authorisation (10-year validity)
 Risk assessment
 Food/feed
 Labelling and traceability

- Monitoring plan in order to identify potential effects of the GMO(s) on human health or the environment
- Consultation of and information to the public
- Information and material for GMOs identification and detection



Information to the public http://gmoinfo.jrc.ec.europa.eu



Deliberate Release and Placing on the EU Market of GMOs - GMO Register

Overview

The purpose of this web site, managed by the Joint Research Centre of the European Commission on behalf of the Directorate General for Health and Consumers is to publish information and to receive comments from the public regarding notifications submitted from the applicants to the Member States Competent Authorities about deliberate field trials and placing on the market of genetically modified organisms , as defined in Directive 2001/18/EC of the European Parliament and of the Council of 12 March 2001.

Click here for details

According to Article 31(2) of Directive 2001/18/EC, the Commission is also to establish one or several register(s), for the purpose of recording the information on genetic modifications in GMOs specified in Section A, point 7 of Annex IV to that Directive. The contents of this register is described in Commission Decision 2004/204/EC of 23rd February, Therefore, this website contains also the required information about GMOs authorized, under Directive 2001/18/EC for marketing purposes which include authorization for cultivation, food, feed and processing.

GMOs can also be approved for placing on the market under Regulation 1829/2003/EC (GM food and feed) for which a register is available at the Community register of genetically modified food and feed

Useful links

Deliberate release into the environment of GMOs for any other purposes than placing on the market (experimental releases)







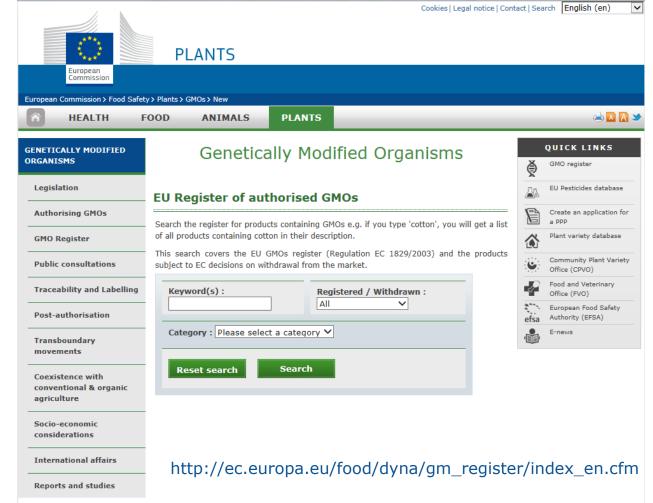
Placing on the market of GMOs as or in products (commercial releases)

Authorised and pending

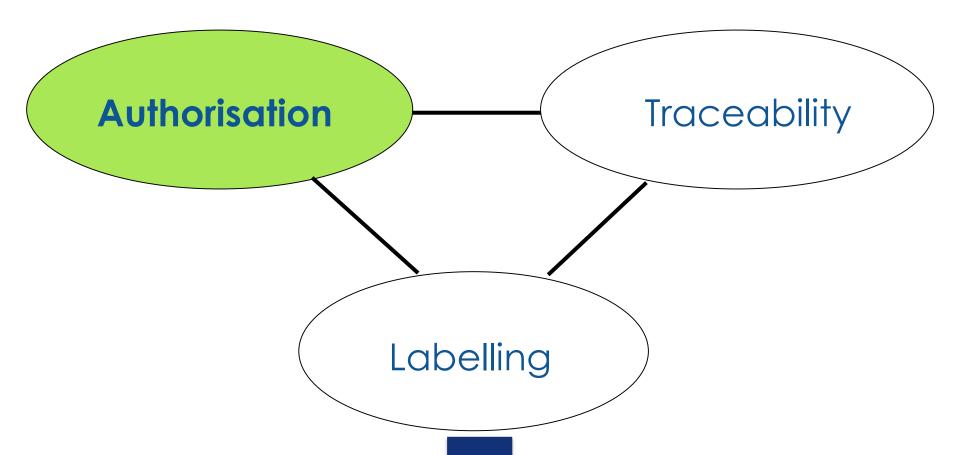




The EU Register of authorised GMOs Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | English Cookies | Legal notice | Contact | Search | Contact | Conta

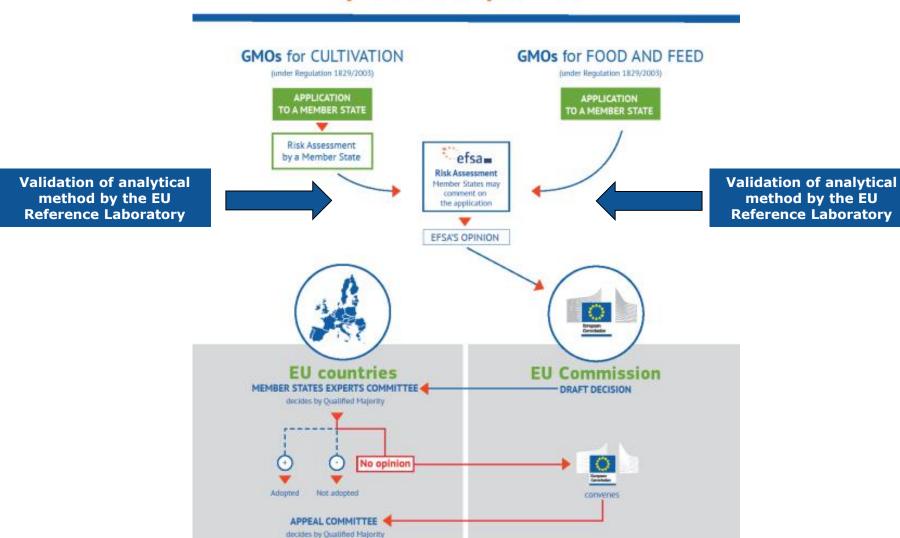


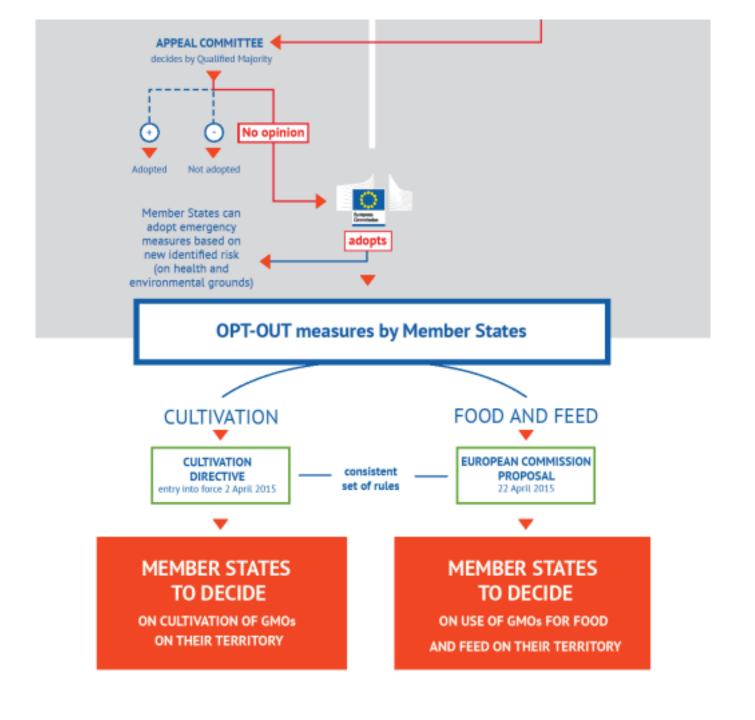




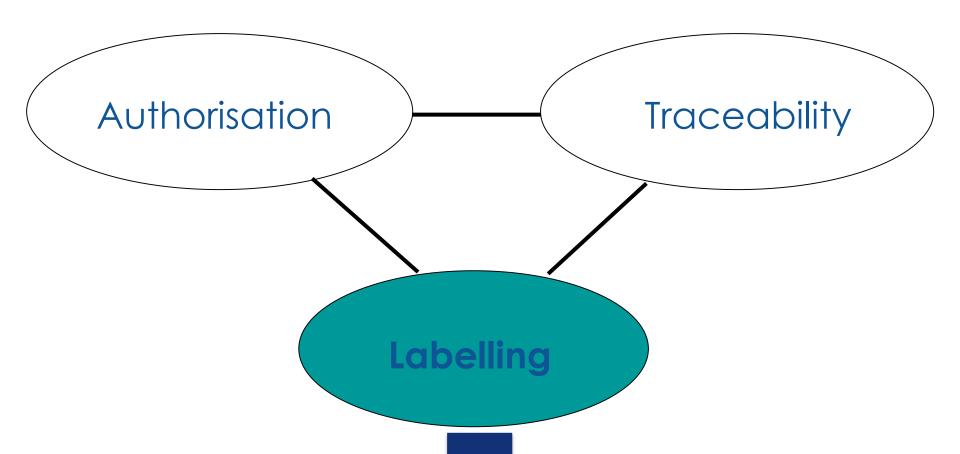


GMOs: EU decision-making process explained











Labelling

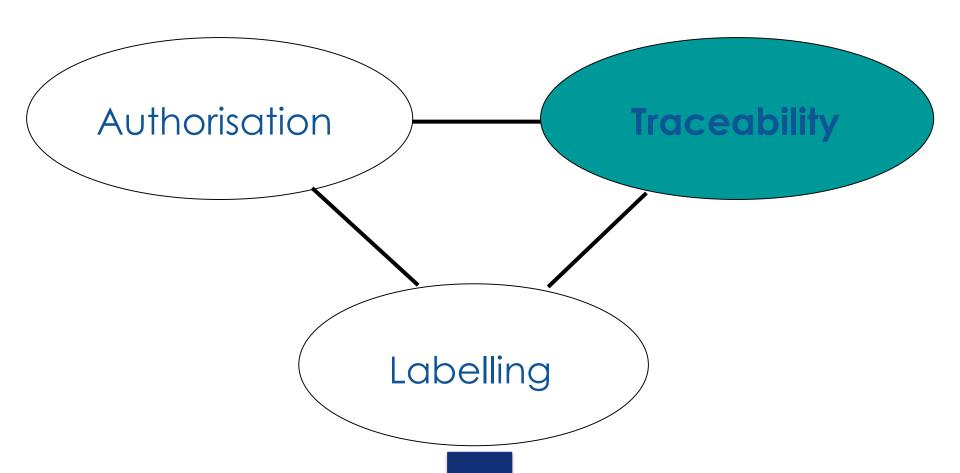
<u>Specific labelling requirements when</u> <u>GM material > 0.9% of the food</u> <u>ingredient/feed material</u>

Labelling not compulsory when GM material ≤ 0.9%, provided that this presence is adventitious or technically unavoidable

⇒ operators must be in a position to supply evidence to satisfy the competent authorities that they have taken appropriate steps to avoid the presence of such material









Traceability

ability to trace GMOs and products produced from GMOs at all stages of their placing on the market through the production and distribution chains

traceability of GMOs traceability of food and feed products produced from GMOs



TO WHOM information shall be transmitted:

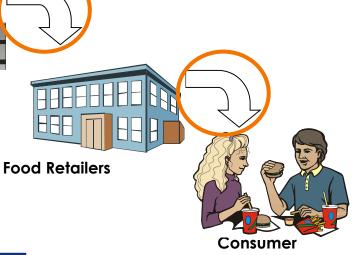


Biotech & Breeding (Institutions/Companies)

Agriculture

Food Processors

At the first stage of the placing on the market, information is transmitted to the operator receiving the product At all subsequent stages of the placing on the market, information received is transmitted to the operators receiving the products





Reg. (EC) No 1830/2003 Traceability



WHAT information shall be transmitted:

above the 0.9% threshold

- ■That the product/ingredient consists of or contains or is produced from GMOs
- □ For products containing or consisting of GMOs, the Unique Identifier shall be provided



GM food and feed legislation Penalties

Laid down by each Member State individually



Reg. (EC) 834/2007

and subsequent amendments on organic production and labelling of organic products



Prohibition of use of GMOs and products produced from or by GMOs

0.9% - tolerance threshold



Reg. (EU) 619/2011

laying down the methods of sampling and analysis for the official control of feed as regards presence of genetically modified material for which an authorisation procedure is pending or the authorisation of which has expired



Reg. (EU) 619/2011 Scope

- ✓ GM material authorised in a third country and for which a valid application has been submitted and for which the authorisation procedure has been pending for more than 3 months provided that:
 - it has not been identified by EFSA as susceptible to have adverse effects on health or the environment
 - the quantitative method has been validated and published by the European Union Reference Laboratory
 - the certified reference material is available
- ✓ GM material for which the authorisation has expired





Reg. (EU) 619/2011

- Methods of Sampling
- ☐ Criteria for sample preparation and methods of analysis
- ☐ 'Minimum Required Performance Limit (MRPL)': the lowest amount or concentration of analyte in a sample that has to be reliably detected and confirmed by official laboratories

 \Rightarrow MRPL = 0.1%

Analytical result - U < 0.1% ⇒ compliant

Analytical result - $U \ge 0.1\% \Rightarrow$ non compliant

Measures in case of detection of GM material



The analytical control to enforce the GMO legislation



Official control

Aim:

Verify the compliance to EU legislation on GMOs and GM food and feed within the European market

Compliance to authorisation provisions

Compliance to labelling and traceability provisions



GM events to be detected

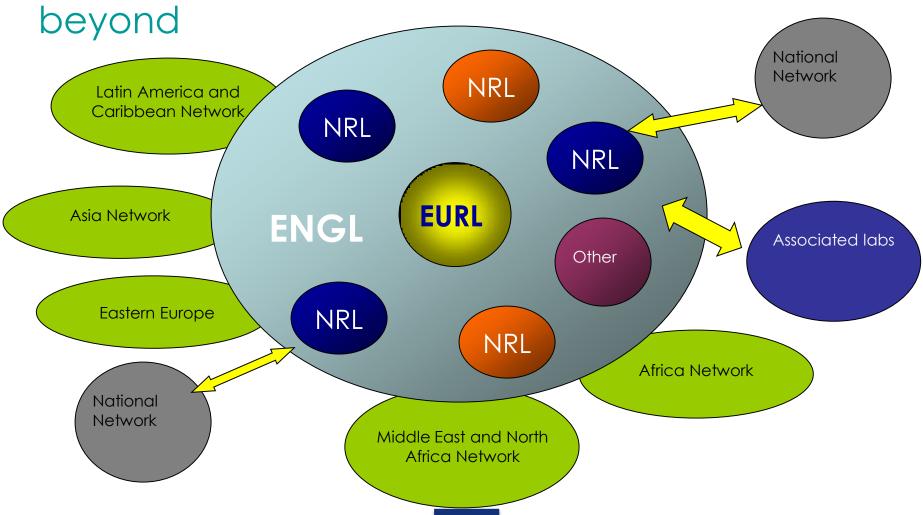
Need to detect and quantify

- Authorised events
- Pending or expired authorisation (in feed)
- Unauthorised events (e.g. LL Rice 601, Bt63, KMD1, Kefeng6 rice, FP967 linseed)

Need to detect



The GMO analytical galaxy in the EU... and





Thank you